

CHIVE TASK FORCE

2 August 1965

MEMORANDUM FOR: Assistant Director, Computer Services
Assistant Director, Central Reference

SUBJECT : Monthly Report for July 1965

This constitutes the first issue of a series of monthly reports to the AD/CS and AD/CR on the status of Phase III of the CHIVE Project. The format will gradually be adapted to mirror the group and task organization established for the CHIVE Task Force (CTF).

I. ACTIVITY HIGHLIGHTS

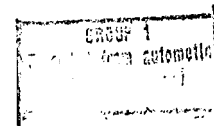
A. Management Activities

1. Reorganization of CHIVE Design Effort

During the month, by agreement between the AD/CS and AD/CR, it was decided that the Phase III effort on Project CHIVE would be organized as the CHIVE Task Force, drawing on personnel from both OCR and the Development Division of OCS. [] was designated Director/CHIVE Task Force (D/CTF), and, as such, will report to the Assistant Director/Central Reference. [] in addition to his other duties, will continue as CHIVE Project Officer.

A number of Task Groups were also established within the CTF. They include: (a) Requirements and Plans Group, (b) Systems Design Group, (c) Program Design Group, (d) Automatic Language Processing Group, and (e) China Operations Group. Policy direction for these groups will come from the AD/CR through the D/CTF. Task Force personnel will retain the career service designation and remain on the T/O of their office of origin.

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B. Requirements and Plans Group1. Page Reader Specification

Study of page reader alternatives has continued, including an evaluation of a proposal for a page reader development by Autonetics Division of North American Aviation, Inc. A paper has been submitted to DAD/CS which compares the CDC, Farrington, and Western Union readers. Near the close of the report period, the DAD/CS agreed to entertain a recommended plan for acquiring the CDC reader on a one-year lease basis.

2. Phase III Planning

A description of proposed and on-going tasks to be initiated or continued pending final management evaluation of the CHIVE Phase II Report was prepared and discussed in a series of conferences with OCR management. Subsequent meetings were held within the CTF relative to priorities, task phasing, interface between tasks, and personnel assignments. A formal memorandum announcing the task assignments was issued by the DAD/CR on 30 July.

3. Inherited Files Conversion Studya. Intellofax Index

A working paper summarizing the findings of the feasibility phase of the study of the IRS File Conversion was completed on 29 July and will be distributed shortly.

b. SR Detail Index

Work on this task was temporarily suspended at the request of OCR management. It is now planned, however, to reactivate the task during August.

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C. Systems Design Group

1. Phase II Documentation

All seven volumes of the CHIVE Phase II Report have been published and distributed. A KWIC index to the report is presently being processed and will be published shortly and transmitted to all recipients of the Phase II Report.

A complete set of the report, with accompanying transmittal letter from the AD/CS, was sent to the DD/I through the CHIVE Project Officer on 26 July.

2. CHIVE Indexing Experiment

A draft version of the final report on the CHIVE Indexing Experiment was completed and distributed to OCR as further background material to be considered in the latter's evaluation of the CHIVE Phase II Report. The formal version of the report on the experiment will be published in August as CHIVE/R-4-65.

3. Location Dictionary/JACK-L

The China and Tibet portions of the Bombing Encyclopedia have been received from DIA. The source files from which the Communist Chinese place name list is now being derived consist of Chinese location files, on EAM cards, from OCR's DD, FIB, GR, and SR divisions; [redacted] 25X1 on tape; and [redacted], also on tape. Other existing files concerning Chinese 25X1 place names are being identified and investigated to see if they would be useful. Files which are not in machine record form are not necessarily being excluded.

The unmerged files have been examined in greater detail to determine what exceptions, etc., they may have which would affect subsequent programming.

Preliminary record formats for the initial merge of all of the location files involved have been outlined and will be modified after the processing steps are completely defined. At least one tape file

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will contain all of the information included in each of the original files. Space for security classification and controls has been allotted for each of the items, or fields, within each record. The source of the information, i.e., the file from which it came, is also being included to make it possible to use the place name list in the construction of the organization dictionary.

4. ISC Modification

Six of the seven chapters of the ISC have been revised. In no sense can the revision be considered final for these chapters, the work to date having consisted primarily of rearranging sections and re-ordering of elements within sections. To aid in refining the revision so that it will reflect more accurately the expertise of practicing indexers, SR and DD have been asked to comment on a draft-copy of the scheme. To date, DD has replied by forwarding two comments. It is expected that SR will soon forward an opinion of the draft so that suitable provision can be made for improvements and/or changes. Meanwhile, work has begun on the final chapter on commodities. This is by far the most difficult chapter and should take proportionately the longest time to prepare.

5. Current Awareness Support

A preliminary study was completed to explore the feasibility and problems associated with the development of an OCR periodic KWIC index publication, and basic points were raised for those instances in which specific OCR policy statements were required before the design could continue.

6. Header Data Input Forms

Further checking was made of form contents, particularly the suitability for SR material.

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With the help of [] of Forms Control, the details of the forms design have been specified for PSD so that sample copies of the forms can be prepared with their Varitype equipment. Sample copies of three of the forms have already been produced by PSD. These three are being reviewed and will soon be sent back to PSD for some slight modifications. It is expected that all of the draft material will be in PSD by 30 July so that sample copies of all of the forms will be available by August 13. Copies of the three forms already returned by PSD are being used to header index some representative documents to provide examples of how the forms are to be used, and to locate further problems and needed modifications. Much of the detail of the form (e.g., physical size, type font, spacing) depends on the specific page reader to be used, so that further review and modification will be necessary after a particular reader has been chosen.

7. Vocabulary Control File Interface

Timing trials continued for several of the lookup devices using a standard test desk. The microfilm copy of the NIS Gazetteer prepared for this test turned out to be unsatisfactory because its resolution and image reduction ratio made it very difficult for the operator to use it for an extended period of time. A new film in an improved format is being prepared by OCR/MD. The time trials are expected to end by 13 August. Some reporting has been done on the related topic of using the computer to perform some automatic lookups and conversions for index terms such as geographical place names.

8. Organization/Installation Dictionary

A meeting was held to discuss the need for some preliminary analysis of the organization dictionary which must be built for CHIVE. It was decided that card files from [], COMOR, NPIC, DD, SR, and FIB would be examined to determine the extent and nature of the problems to be encountered

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in producing a combined authority. A tentative agreement was also reached that such descriptors as security, source, and dissemination codes would be carried at the term rather than the record level during the dictionary development phase.

Decisions about security and selectivity will have a considerable impact upon the content of the file and the nature of the listings, dictionaries, etc., produced from the file. As a consequence, this task is limited at the moment to examining the scope of the problem. Any recommendations must be carefully coordinated with Task Force groups concerned with the use of this tool. A considerable amount of work has already been done in providing formats, sample listings, etc., as a basis for such recommendations.

In addition, the recommendations of Task Team IV, CODIB, will have an impact on the content and use of the file and the procedures used in maintaining it. In this connection, during the period under review, the Acting Director/CTF was asked by the Chairman, CODIB, to prepare a paper for the next CODIB meeting which would constitute CIA's position with respect to the CODIB Task Team IV recommendations on installation identification. A draft of this paper has been completed and is currently being reviewed by interested Agency components.

9. Security Specifications

A working paper (CHIVE/W-2-65) entitled "A Sample Solution to the CHIVE Functional Security Problem," was published on 15 July. A problem definition paper is also being prepared as a means of indoctrinating the OCR participants to be appointed to the Security Task Team.

10. Document Delivery System

Implementation planning for the Document Delivery System was temporarily suspended pending the issuance of revised personnel assignments to this and other tasks.

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11. Purge Criteria

A preliminary study has been started to determine criteria for CHIVE file purging. Data has been collected and analyzed to show the age distribution of the oldest material requested in 1961 and 1965 Intellofax runs. Further study is planned.

D. Program Design Group1. Input Processing

A draft paper describing the organization and contents of the CHIVE File Definition Tables was written.

2. Unconditional File Maintenance

A second draft paper was completed which describes the characteristics of internal file maintenance transactions and resulting internal record formats.

3. Analysis of CHIVE Command Language

A briefing for OCR management on the CHIVE command language was prepared and delivered.

4. Header Data Error Checking

The initial design of a program to perform error checking and data conversion functions using page reader input was completed. Subsequent header form redesign has resulted in the elimination of the mark-sense input fields. With this in mind, the error checking portion is being redesigned.

E. Automatic Language Processing Group1. Steno Software

The ALP Steno program is in debug state. A large-scale program of output analysis is underway at IBM Research to lower the present system

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error rate of about 5 percent (2 percent dictionary, 2 percent machine and programming, and 1 percent input). The throughput rate has been raised to 55-65 words per second. It is anticipated that the contract specifications of 55 words per second at 4 percent error rate will be met by IBM.

The final group of Agency-resolved homographs was delivered to IBM Research, together with a list of new entries for the Steno dictionary.

2. Russian Software

The process word program for Russian MT is still being debugged. The contract throughput specification (20 words per second) has been exceeded but quality problems remain with respect to personal names and adjective-adverb ambiguities.

3. Hardware Status

The ALP hardware configuration completed a 4-week product test on 16 July. An additional week of product testing is scheduled for the Steno mark reader.

4. Stenotype Teaching Device

On 22 July

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met with to discuss a proposal to program the TANA Steno teaching device for Agency Stenotype theory. A detailed study was made of the operating specifications of the device during their stay. A firm proposal will be submitted to the Agency in early August.

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5. Stenograph Machine Modifications

A modified stenograph machine which was corrected by the manufacturer has been sent to IBM Kingston to determine if the machine meets the specifications laid down by the Agency to Stenograph Machines, Inc. Test tapes will be generated on the remaining machines for evaluation at Kingston.

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F. Monthly Documentation Summary

1. Substantive Memoranda

Demonstration of Recognition Equipment Page Reader, 1 July 1965, Unclassified.

Inventory of OCS/DD and Contractor Personnel with Current Assignments, 9 July 1965, Confidential.

Outline of Proposed Interim Tasks for CHIVE Task Force, 11 July 1965, Confidential.

CYPRESS Briefings in San Jose, 12 July 1965, Unclassified.

AMPEX Briefing, 14 July 1965, Unclassified.

Possibility of Automatic Computer Lookup of Preferred Place Names, 14 July 1965, Unclassified.

Comparison of CDC, Farrington, and Western Union Page Readers, CHIVE/C-2-65, 16 July 1965, Unclassified.

Comments on Possible CHIVE Production of A KWIC Index to OCR Input, CHIVE/C-3-65, 20 July 1965, Unclassified.



2. Task Descriptions

Study of Criteria for File Purging, CHIVE/T-7-65, 27 July 1965, Unclassified.

Assistance in the ALP Evaluation, CHIVE/T-6-65, 27 July 1965, Unclassified.

3. Reports

Comparative Analysis of Input Transcription Techniques, CHIVE/R-2-65, 2 July 1965, Unclassified.

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Project CHIVE, Phase II Report, CHIVE/R-3-65,
20 July 1965, Secret.

4. Working Papers

A Sample Solution to the CHIVE Functional Security
Problem, CHIVE/W-2-65, 13 July 1965, Secret.

G. Briefings, Meetings, Miscellany

- 25X1 1. On 19 July, [] visited IBM Research at
Yorktown Heights, N.Y., to discuss ALP system
problems.
- 25X1 2. [] met with B. Bowen of Arthur D. Little,
Inc., on 21 July to discuss problems in machine
translation.
- 25X1 3. CTF personnel attended a briefing by Messrs. D.
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of NSA on [] 27 July. The
briefing was arranged as the result of certain
recommendations of the Baker Panel concerning
information processing within the Intelligence
Community.
- 25X1 4. []
- 25X1 5. On 12 July, []
25X1 [] met with Lt. Thorne, Chief Frank, and Mr.
C. Brown to discuss conversion of the ISC to a
keyword system for use by shipboard personnel in
the Naval Intelligence Storage and Retrieval
System.
- 25X1 6. On 27 July, [] attended a
briefing given by Litton Industries representatives
on efforts on going with their company slanted
toward the intelligence community market.

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II. PERSONNEL

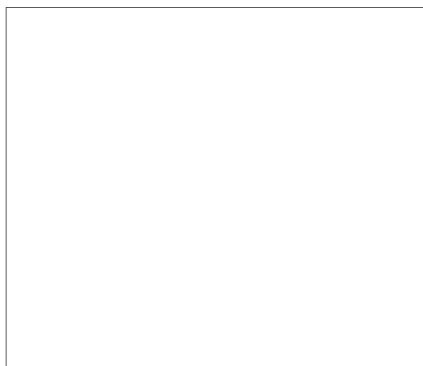
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A. Agency1. 

2.  completed four weeks of indoctrination at Kingston and Yorktown Research on ALP hardware and software systems, 16 July.

3.  attended an IBM course on Direct Access Storage Concepts, 7-9 July.

4. Agency personnel assigned full time to the CHIVE Task Force during the report period were as follows:

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B. IBM

1. Personnel currently assigned to Project CHIVE:

Full TimePart Time

Alper, B. H.
 Flynn, N. J.
 Hooper, R. S.
 Luke, J. A.
 Moore, P. A.
 Murray, P. J.
 Oberthaler, S. M.
 Pittard, L. I.

DiCostanzo, J. A.

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2. Personnel Changes

- a. Mrs. Oberthaler and Mr. Flynn returned on 26 July from a three-week/360 Basic Assembly Language programming class.
- b. Miss Pittard is scheduled to leave the project on August 13.

C. SRI

Mr. Bourne continued on full-time duty at Headquarters during July.

III. BUDGET AND FISCAL

A. IBM/CHIVE Contract

1. The total number of contractor man-hours expended on CHIVE during the month of July was 973.
2. Expenditures to date on the current contract are approximately 29 per cent of the total budget.

B. CHIVE Task Force

1. A memorandum from the AD/CR describing CHIVE manpower requirements for Phases III and IV was submitted to the Director/OBPAM on 7 July.



Acting Chief
CHIVE Task Force

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